

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: James R. Crawford

CONTINUATION OF SERIAL NO.:

GROUP ART UNIT:

FILED: Herewith

EXAMINER:

FOR: "Bi-directional Thruster Pig Apparatus and Method of Utilizing Same"

ATTORNEY DOCKET NO.: C03209US (71768.2C2)

PRELIMINARY AMENDMENT

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

IN THE CLAIMS:

Please amend the application as follows:

1. (Currently amended) A bi-directional pig apparatus for use in a pipeline, the pig comprising:
 - a. a body portion having front and rear end portions and a first principal bore therethrough;
 - b. ~~a plurality of~~ one or more thruster ports extending through the body portion for allowing fluid to flow through the plurality of thruster ports in a first direction under a first fluid pressure and in a second direction under a second fluid pressure;
 - c. means within each thruster port for reacting to fluid pressure to allow fluid flow through the thruster ports.
2. (Original) The apparatus in claim 1, wherein there are provided at least six thruster ports in the apparatus.